

Attorney Docket No. TEC-023044-US

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method of making a stratified paper comprising the steps of:
 - (a) introducing a pulp suspension into a headbox of a paper making machine, said which-headbox has comprising a single layer zone and having at least one ultrasonic means in proximity to said single layer zone;
 - (b) subjecting said pulp suspension inside the single layer zone of the headbox to acoustic radiation forces produced by said ultrasonic means;
 - (c) causing the pulp suspension in the single layer zone to separate into two or more fractions according to the relative sizes of the fibers;
 - (d) depositing said pulp suspension onto a wire; (e) draining said pulp suspension; and (f) drying said pulp suspension.
2. (Original) The method of claim 1 wherein said ultrasonic means is an ultrasonic transducer.
3. (Currently Amended) The method of claim 1 wherein said ultrasonic means is mounted on the top wall of the inside of the single layer zone of the headbox.
4. (Currently Amended) The method of claim 1 wherein said ultrasonic means is mounted on the bottom wall of the inside of the single layer zone of the headbox.
5. (Currently Amended) The method of claim 1 wherein said ultrasonic means is mounted on the top and the bottom wall of the inside of the single layer zone of the headbox.
6. (Currently Amended) The method of claim 1 wherein the wall of the single layer zone of said headbox is replaced with an ultrasound transducer.

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7. (Original) The method of claim 1 wherein the pulp suspension forms a pulp stream having one region rich in smaller fibers and another region rich in course fibers.
8. (Original) The method of claim 1 wherein the pulp suspension forms a pulp stream having one region rich in fine fibers and another rich in course fibers that is sandwiched inside the fine fibers.
9. (Original) The method of claim 1, further comprising a source of electrical power connected to and configured to energize said ultrasonic means.
10. (Original) The method of claim 1, further comprising at least one receiver.
11. (Original) The method of claim 1 wherein the acoustic radiation forces in the range of 0 W/cm² to 150 W/cm².
12. (Original) The method of claim 2 wherein the transducer has a frequency in the range of 20 kHz to 150 MHz.
13. (New) A method of making a stratified paper comprising the steps of:
 - (a) introducing a pulp suspension into a single layer headbox of a paper making machine, which headbox has at least one ultrasonic means;
 - (b) subjecting said pulp suspension inside the headbox to acoustic radiation forces produced by said ultrasonic means;
 - (c) causing the pulp suspension to separate into two or more fractions according to the relative sizes of the fibers;
 - (d) depositing said pulp suspension onto a wire;
 - (e) draining said pulp suspension; and
 - (f) drying said pulp suspension.
14. (New) The method of claim 13 wherein said ultrasonic means is an ultrasonic transducer.
15. (New) The method of claim 13 wherein said ultrasonic means is mounted on the top wall of the inside of the headbox.

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16. (New) The method of claim 13 wherein said ultrasonic means is mounted on the bottom wall of the inside of the headbox.
17. (New) The method of claim 13 wherein said ultrasonic means is mounted on the top and the bottom wall of the inside of the headbox.
18. (New) The method of claim 13 wherein the wall of said headbox is replaced with an ultrasound transducer.
19. (New) The method of claim 13 wherein the pulp suspension forms a pulp stream having one region rich in smaller fibers and another region rich in course fibers.
20. (New) The method of claim 13 wherein the pulp suspension forms a pulp stream having one region rich in fine fibers and another rich in course fibers that is sandwiched inside the fine fibers.
21. (New) The method of claim 13, further comprising a source of electrical power connected to and configured to energize said ultrasonic means.
22. (New) The method of claim 13, further comprising at least one receiver.
23. (New) The method of claim 13 wherein the acoustic radiation forces in the range of 0 W/cm² to 150 W/cm².
24. (New) The method of claim 14 wherein the transducer has a frequency in the range of 20 kHz to 150 MHz.